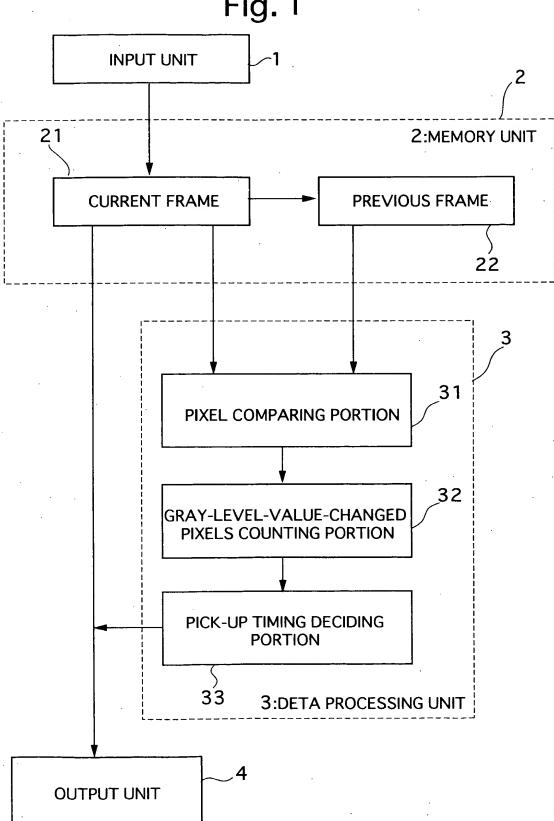


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Fig. 1



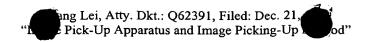
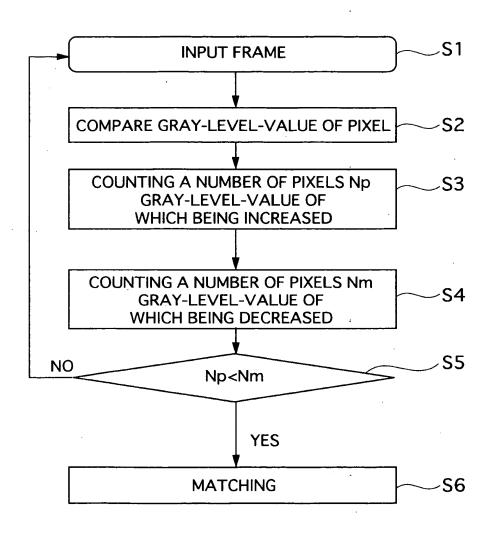
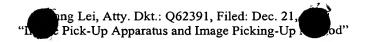
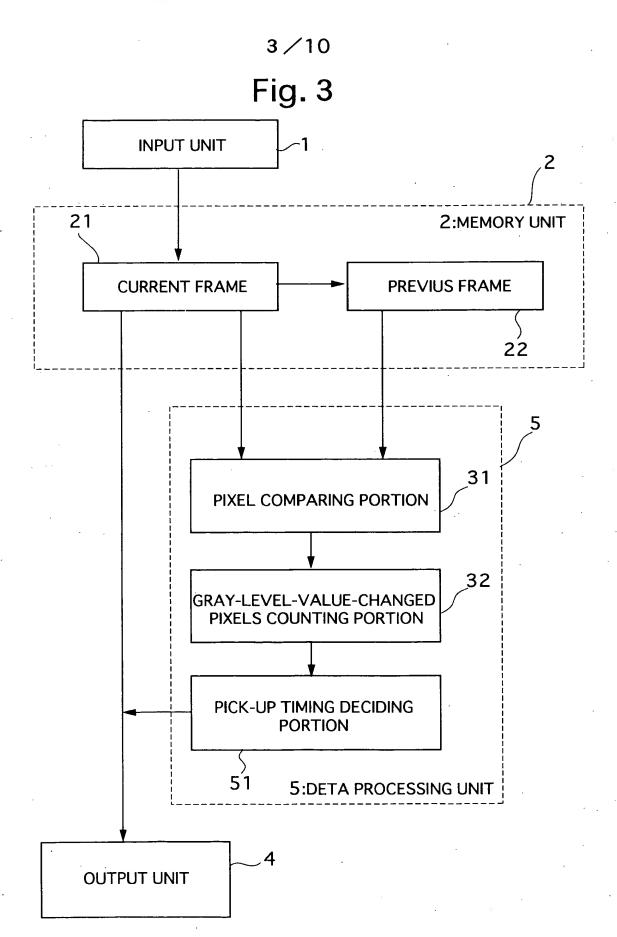


Fig. 2







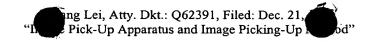
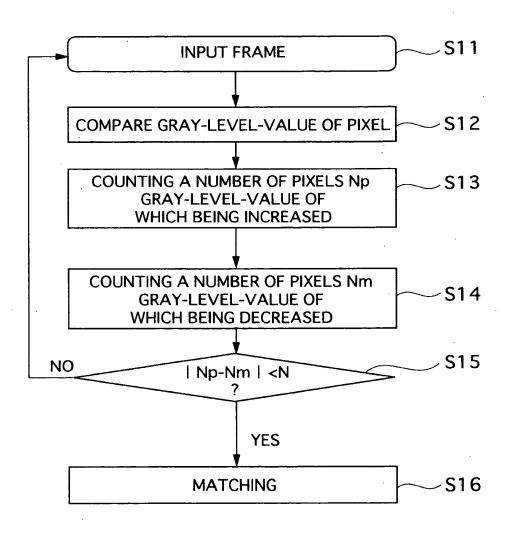
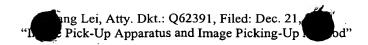


Fig. 4





5/10 Fig. 5 **INPUT UNIT** 21 2:MEMORY UNIT **PREVIOUS FRAME CURRENT FRAME** 22 31 PIXEL COMPARING PORTION 32 **GRAY-LEVEL-VALUE-CHANGED** PIXELS COUNTING PORTION 61 FINGERPRINT LINE PATTERN PIXELS COUNTING PORTION 62 PICK-UP TIMING DECIDING **PORTION** 6:DETA PROCESSING UNIT

**OUTPUT UNIT** 

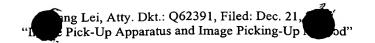
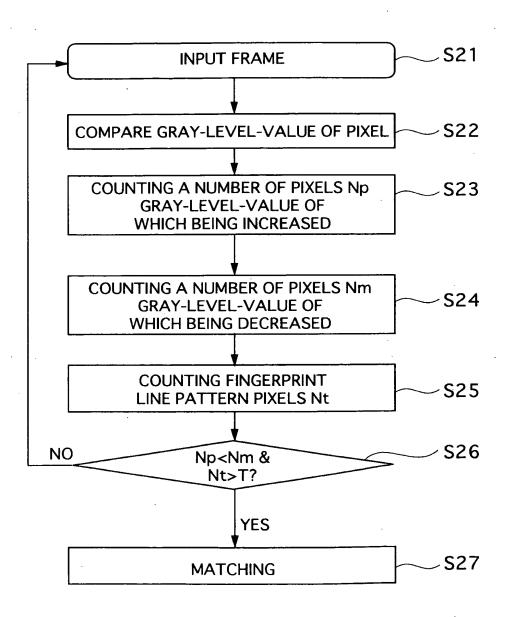
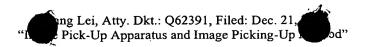
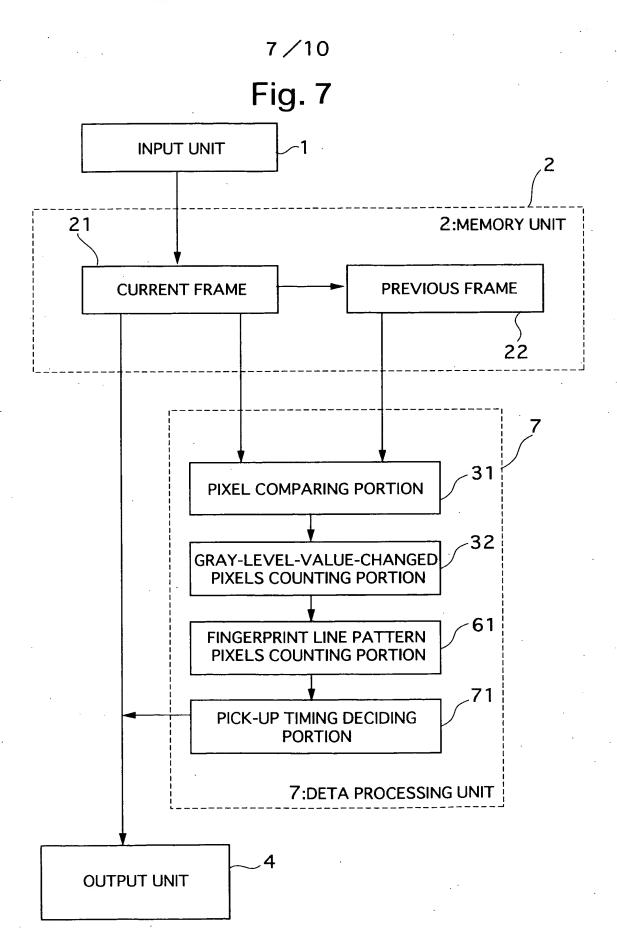


Fig. 6







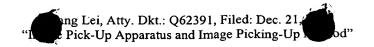
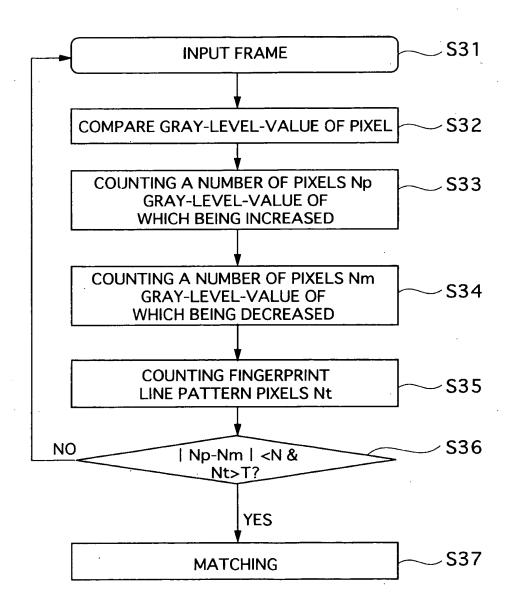


Fig. 8



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Fig. 9

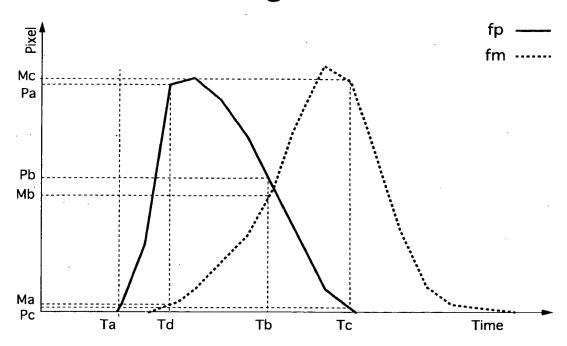


Fig.10

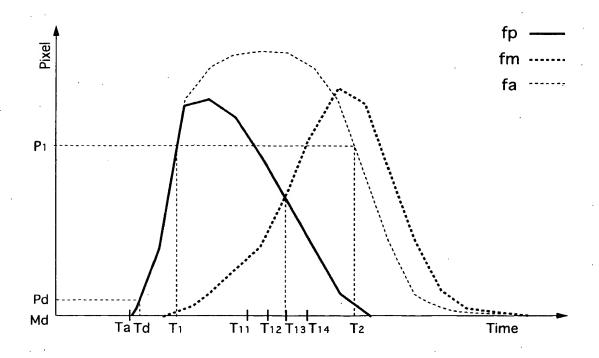
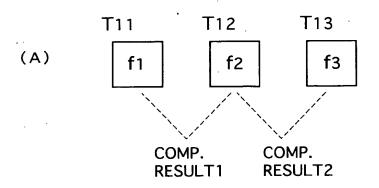




Fig. 11



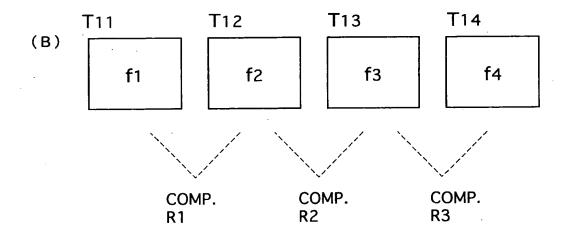


Fig.12

